

AMENDMENTS TO THE ABSTRACT:

Please replace the paragraph (Abstract) beginning at page 16, line 1 with the following rewritten version:

ABSTRACT OF THE DISCLOSURE

Regulating compression capability to a load is performed by an inverter ~~(15)~~ that regulates revolution number of an electric motor ~~(11)~~. This makes unload control in capability regulation unnecessary, preventing operational efficiency from lowering. Further, a capacity control valve for capacity control is eliminated for a simplified valve control mechanism. Regulating a variable inner volume ratio achieves the highest compressor efficiency corresponding to operating condition (capability). When a low inner volume ratio command is issued, a slide valve ~~(19)~~ is moved by a compression section controller ~~(27)~~ in an axial direction toward the electric motor ~~(11)~~. This advances completion time of a compression step to advance discharge of a compressed gas. When a high inner volume ratio command is issued, the slide valve ~~(19)~~ is moved in an axial direction toward a piston ~~(25)~~, which delays time of completion of compression step to delay discharge of a compressed gas.